

Product datasheet for **MC210750**

Mrpl58 (NM_026729) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mrpl58 (NM_026729) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mrpl58
Synonyms: 1110001A02Rik; 1110002E03Rik; lct1; MRP-L58
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210750 representing NM_026729
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGACCGCCTGGGGCCTACGCTGGGGCCTGAGCCGAAGTGAACGTTGTTGCTCGCGCCGCCCGCGC
GCTGTGCTCGCCGGGCTCTGCACAGACAGGAGCATGCAAAACAAGCCAGCAGTTACATCCCTCTGGATCG
GTTAAGCATATCTTACTGTCGGAGCAGCGTCCCTGGTGGGCAGAATGTGAACAAAGTGAATCCAAGGCT
GAAGTAAGGTTTCACTTGGCCAGTGCAGACTGGATTGAGGAGCCCGTGCAGCCAGAAGATTGCCCTCACGC
ATAAAAAAAGATCAACAAGGCAGGAGAGCTGGTACTTACCTCTGAGAGCAGCCGGTATCAGTTCGCCAA
TCTGGCAGAATGCCTACAGAAAATTCGAGACATGATTGCCGAGGCCAGCCAGGTACCCAAAGAGCCATCC
AAGGAAGATGCTCGGCTTCAGAGACTCAGGATTGAAAAGATGAATCGGGAAAGGCTACGACAGAAAAGAC
TAAACTCTGCCCTAAAGACCAGCAGGAGGATGACTATGGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_026729
Insert Size: 534 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_026729.1</u> , <u>NP_081005.1</u>
RefSeq Size:	734 bp
RefSeq ORF:	534 bp
Locus ID:	68572
UniProt ID:	<u>Q8R035</u>
Cytogenetics:	11 E2
Gene Summary:	Essential peptidyl-tRNA hydrolase component of the mitochondrial large ribosomal subunit (PubMed:20869366). Acts as a codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation. May be involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes (By similarity).[UniProtKB/Swiss-Prot Function]